

Title

Ion exchange membranes based on mixtures of strong polybase polymers with neutral polymers

Patent Assignee

Yeda Research and Development Co. Ltd., Israel

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Abstract

Supported or nonsupported crosslinked, **anion-exchange**, highly permselective membranes, useful in **electrodialysis**, are manufd. from compns. contg. a strong polybase, optionally quaternized, a neutral, water-sol., slightly polar polymer (e.g., polyamides), and a crosslinker for the polybase. Thus, a soln. contg. 100 mL DMF, 6 g Trogamid (semiarom. polyamide), 4 g poly(4-vinylpyridine) (15% quaternized with octyl bromide), and 1 g dibromodecane crosslinker was cast on glass or polyethylene films, and the resulting films were crosslinked 5-20 h at 50° in water to give a membrane with resistance 1-2 .OMEGA. cm2 and potentials in NaCl solns.: 0.1N/0.01N 53.3 mV and 2N/1N 11.4 mV.

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